



# Comments to NPRM 03-137

## 3<sup>rd</sup> May 2004

Launchpad Applications  
BREWapi  
BREW Distribution System  
gpsOne  
CDMA Chipsets  
Homeland Security Initiatives  
Fleet Management Solutions  
CDMA2000 1X  
CDMA2000 1xEV-DO  
CDMA2000 1xEV-DV  
WCDMA/UMTS  
Application Solutions  
Mobile Processors  
Base Station Processors  
Radio Processors  
CDMA University  
Network Optimization  
Software Tools  
Development Tools  
QCTest Tools  
Client Software  
Digital Cinema  
Advanced Security Solutions

Australia • Austria • Belarus • Brazil • Canada • Chile • China • Colombia • Denmark • Dominican Republic • Ecuador • Guatemala • India • Indonesia • Israel • Italy • Japan • Mexico  
• Moldova • New Zealand • Nicaragua • Panama • Romania • Russia • South Korea • Sweden • Taiwan • Thailand • United Kingdom • United States • Venezuela • Vietnam

QUALCOMM CDMA Technologies  
QUALCOMM Technology Licensing  
QUALCOMM Wireless and Internet Group  
QUALCOMM Strategic Initiatives

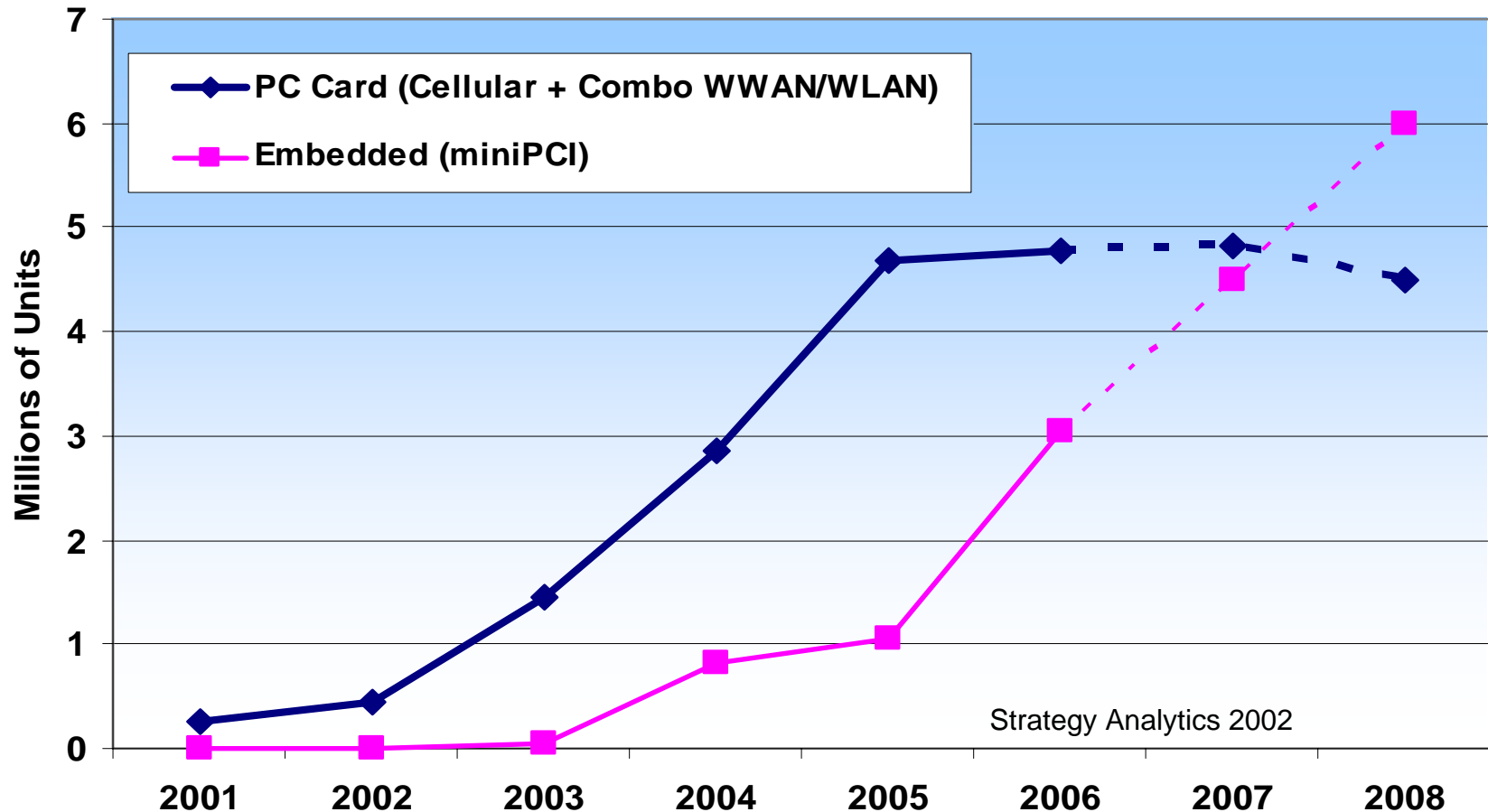
# Verizon Wireless Going Nationwide With Flat-Rate EV-DO

- **CDMA2000 1xEV-DO deployment to go beyond the current two markets -- San Diego and Washington, D.C.**
- **Offered at \$79.99 flat rate, all-u-can eat pricing, 1xEV-DO offers speeds of 300 to 500 kilobits per second, or about 10 times the average dial-up connection speed...**
- **Verizon says it will spend \$1 billion over the next two years to launch the EV-DO network... the company's nationwide deployment will be marketed to both consumers and enterprises...**



Source: Verizon Wireless, January 2004

# Cellular Connectivity in Notebooks



- PC card growth will peak in 2006 as embedded solutions overcome technical barriers, and as multi-mode solutions become viable
- PC cards will continue to offer legacy support for installed notebook base

## QC NPRM 03-137 Comments

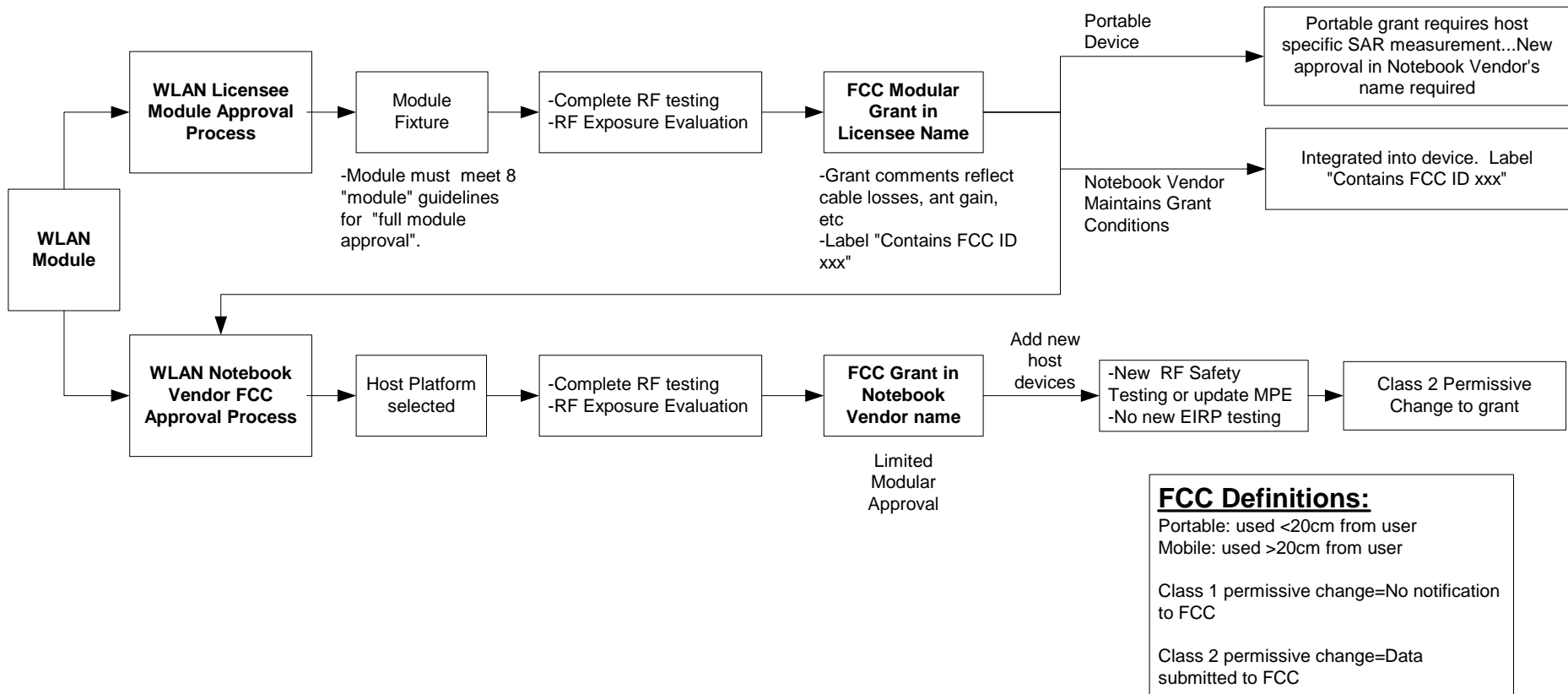
- **The NPRM proposed changes apply only to Part 15 modular devices. QUALCOMM urges the FCC to adopt similar rules for Part 22 and Part 24 modular devices.**
- **Given the rapid proliferation of 3G technologies the laptop and PDA manufacturers wish to offer an integrated solution using modules based on technologies such as 1xRTT and/or 1xEV-DO**
- **By adopting rules to streamline the authorization process for Part 22 and Part 24 modular devices the FCC will enable the computing industry to bring WWAN products to market in a timely and cost effective manner**
- **The FCC should enact clear requirements for SAR testing of products with embedded authorized modules and antenna subsystems**
- **The FCC should exempt devices from SAR evaluations when the antennas are located in the laptop display a distance of 20 cm or greater from the users body**

# Formalize SAR Measurement Procedure for Laptops

- **The OET Mobile and Portable RFX Procedure (March 18, 2004) released to TCBs and Interpretations database item 20040323-001**
  - **Defines measurement positions for laptops**
  - **Defines measurement requirements for laptops with antenna's located in the display portion of laptop where 20cm separation distance can be maintained, i.e. no SAR if 20cm separation distance maintained**
  - **Defines 3 host method for PC cards i.e. PCMCIA or PCIe**
- **Document is in-line with Qualcomm recommendations**
- **Part 2 Rules should reflect the requirements detailed in this document**

# FCC Approval Process For WLAN

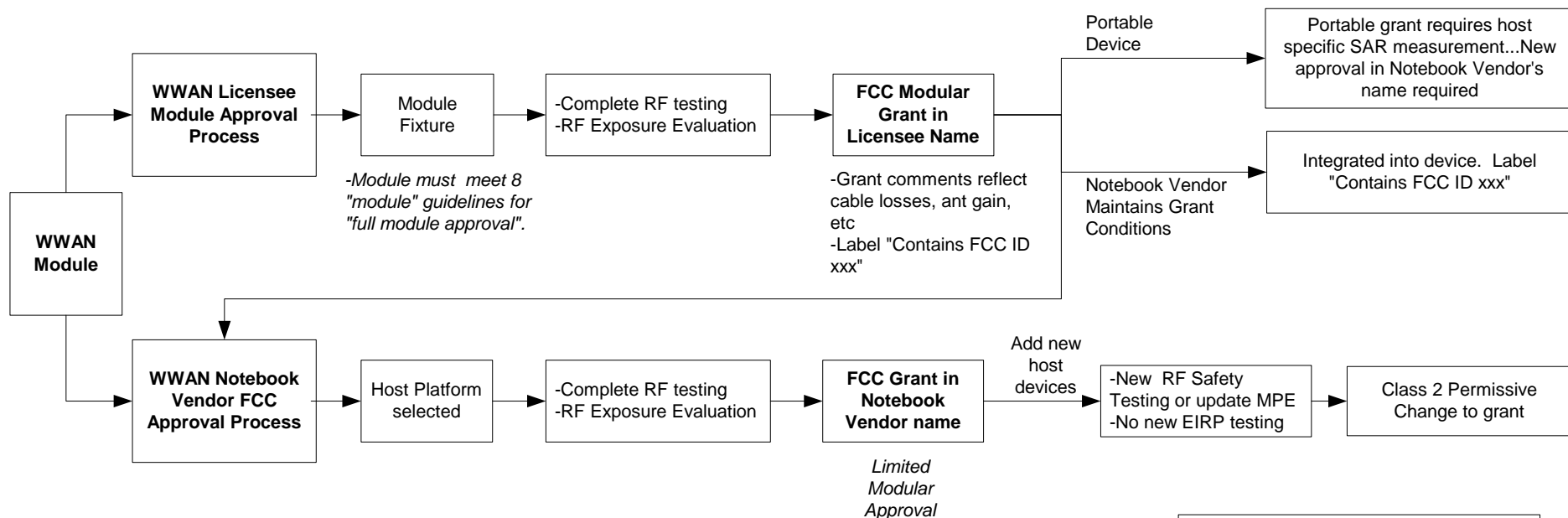
## Part 15 Product Approval Process





# FCC Approval Process For WWAN

## FCC Part 22 and Part 24 Devices



**Note: Modular and Limited Modular Approval process is not yet formalized within the FCC. See NPRM Docket 03-137**

### FCC Definitions:

Portable: used <20cm from user  
Mobile: used >20cm from user

Class 1 permissive change=No notification to FCC

Class 2 permissive change=Data submitted to FCC